

EXECUTIVE OFFICER SUMMARY REPORT
April 13, 2005

ITEM: 6

SUBJECT: NPDES PERMIT RENEWAL: WASTE DISCHARGE REQUIREMENTS FOR JACK AND MARK STIEFEL DAIRY; RIVERSIDE COUNTY (TENTATIVE ORDER NO. R9-2005-0095, NPDES PERMIT NO. CA0109011) (Whitney Ghoram)

PURPOSE: To adopt a tentative Order that updates and renews the National Pollutant Discharge Elimination System (NPDES) Permit, Waste Discharge Requirements for Jack and Mark Stiefel Dairy for an existing concentrated animal feeding operation (CAFO).

PUBLIC NOTICE: The NPDES permit hearing notice was published in the Riverside Press Enterprise on March 11, 2005 for the Regional Board meeting scheduled for April 13, 2005. Copies of the tentative Order were mailed on March 11, 2005 to the discharger and to all known interested parties and agencies. The tentative Order was also posted on the Regional Board's website on March 11, 2005. Copies were made available for public review at the Regional Board office on March 11, 2005.

These actions served as the 30-day official public notification for this action, as required by Title 40, Section 124.10 of the Code of Federal Regulations.

DISCUSSION: Jack and Mark Stiefel Dairy is located in Riverside County at 32750 Holland Road, Winchester. The dairy farm consists of a herd size of 1,500 milking cows, which is classified as a large CAFO. The NPDES permit establishes a herd size limit of 1,500 milking cows.

The dairy farm's milking operation generates an effluent wastewater stream consisting of milking parlor and feed lane wash water, and storm water from production areas. Effluent wastewater is collected in sumps and pumped to flush water storage tanks. Manure from the corral areas is stored in a pile at the south end of the facility, and the flush water filtrate discharges to wastewater detention lagoons for storage. Storm water is also diverted to and stored in the lagoons.

There are two clay-lined main wastewater detention lagoons (north and south) with a total storage capacity of approximately 14 acre-

feet. The facility also has a third detention lagoon system, consisting of 3 ponds arranged in series for an additional storage capacity of 18.6 acre-feet (for a total of 32.6 acre-feet). The facility has sufficient wastewater storage capacity to contain wastewater and runoff from the production area for a 24-hour, 25-year storm event and wastewater produced on-site for 60-days.

Wastewater from the lagoons is used for land irrigation. Manure is applied to cultivated croplands or hauled off the dairy property for disposal. Manure hauled away is recorded on manure manifest forms.

The dairy farm is currently regulated by existing Order No. 2000-18, NPDES Permit No. CA0109011. Order No. 2000-18 expires on April 12, 2005.

Tentative Order No. R9-2005-0095, NPDES Permit No. CA0109011, *Waste Discharge Requirements for Jack and Mark Stiefel Dairy, Riverside County*, renews Order No. 2000-18 in its entirety, and expires five years following its adoption by the Regional Board. The discharger reports no increase in herd sized for the NPDES permit renewal.

The discharger submitted a NPDES permit renewal application, dated October 20, 2004, and proposes to process up to 75,000 gallons per day (gpd) of wastewater from the dairy farm milking operation. The permit renewal application estimates that the maximum volume of 50 gallons per day of wastewater is produced per milking cow, from a milking cow herd size of 1500 cows, for a maximum daily flow of approximately 75,000 gpd.

There is no discharge of waste water from the dairy farm; therefore the dairy farm operation is not expected to adversely impact the designated beneficial uses nor exceed the water quality objectives of the surface waters within the Domenigoni Hydrologic Subarea (HSA) (902.35) of the Murrieta Hydrologic Area (HA)(902.30) of the Santa Margarita Hydrologic Unit (HU)(902.00).

There are control measures in place in the storage lagoons; therefore the dairy farm operation is not expected to adversely impact the designated beneficial uses nor exceed the water quality objectives of the ground waters within the Domenigoni Hydrologic Subarea (HSA) (902.35) of the Murrieta Hydrologic Area (HA)(902.30) of the Santa Margarita Hydrologic Unit (HU)(902.00).

As of March 21, 2005, the Regional Board has not received any written comments regarding the tentative Order.

KEY ISSUES: Manure is applied to cultivated croplands or is sold and hauled off site. The USEPA CAFO Rule requires manure manifest records to be maintained for manure hauled offsite.

LEGAL CONCERNS: None.

**SUPPORTING
DOCUMENTS:**

1. Location map.
2. Tentative Order No. R9-2005-0095
 - (i) Attachment A - Definitions
 - (ii) Attachment B - Topographic Map
 - (iii) Attachment C - Wastewater Flow Schematic
 - (iv) Attachment D - Federal Standard Provisions
 - (v) Attachment E - Monitoring and Reporting Program
 - (vi) Attachment F - Fact Sheet
 - (vii) Attachment G - Waste Water Storage Requirements
 - (viii) Attachment H - Regional Board Requirements for Nutrient Management Plan
3. Copy of tentative Order transmittal letter, dated March 11, 2005.
4. Affidavit of Publication

**COMPLIANCE
RECORD:**

The review of discharger monitoring reports indicated the Discharger has been in compliance with Order No. 2000-18 during the previous five years.

**SIGNIFICANT
CHANGES:**

1. The Discharger shall develop a Nutrient Management Plan (NMP) and a Storm Water Pollution Prevention Plan (SWPPP).
2. The discharger shall maintain manure manifest records.
3. The Discharger shall conduct annual manure monitoring for nitrogen and phosphorus the same time that groundwater monitoring is conducted for nitrogen and phosphorus.
4. The Discharger shall conduct soil monitoring for nitrogen and phosphorus every five years.
5. The discharger shall participate in Regional Watershed Monitoring if directed by the Regional Board.

6. The Discharger shall conduct Special Studies if directed by this Regional Board.
7. The Discharger shall conduct visual inspections of the CAFO production area water lines on a daily basis, and the diversion structures, manure storage area, and process wastewater impoundments on a weekly basis.

RECOMMENDATION: Adoption of tentative Order No. R9-2005-0095, NPDES Permit No. CA0109011 is recommended.